

EO350

Two-axis Gimbal System

EO350 optical stability pod is used for aircraft carriers, such as large and medium-sized manned aircraft or UAV. The 2-axis 4-frame gyro-stabilized platform and high-precision IMU can ensure the pod's high stability and precise target location capability. Users can collocate different loads according to different requirements, such as visible light camera, cooling infrared camera, laser detector and other payloads. It can realize day and night reconnaissance, identification and weapon guidance of targets, and has functions such as scanning, searching, tracking, ranging, GEO tracking and target positioning.

Features

20X optical zoom, long focal length visible light camera

640×512, continuous zoom ,cooled infrared camera

15Km Laser range finder

IMU(Inertial measurement unit)

Long-focus image stabilization

Two-axis four-frame servo-stabilized pod

Auto/manual tracking

GEO tracking



Applications

Day & night investigation

Weapon guidance

Terrorism prevention

Searching and secure

Technical Specifications

Item	EO350
Platform Performance	
Gimbal size	Φ350X485mm
Weight	≤45KG
Angle range(Course)	360° x n
Angle range(Pitch)	-110°~+20°
Angular velocity	Pan:60°/s, Tilt:40°/s
Stabilized precision	20μrad (RMS)
Tracking accuracy	1mrad (condition 2°, RMS 1Hz disturbance)
Image Performance	
IR resolution	640 X 512
Detector type	Cooled medium wave MCT detector
Pixel pitch	15um
Lens focal distance	15mm-280mm
Lens FOV	35.4°X28.7°~1.97°X1.57°
Frequency	50Hz
Polarity/LUT mode	Black hot/White hot
CCD Camera Performance	
Lens FOV	24.9°x14.1°~1.27x0.72°
Lens Focus distance	15mm-300mm
Resolution	1920×1080
Amplification	20X
Zoom&Focus	Auto dimming, Auto/manual focus
Laser performance	
Detector function	Ranging / Mapping
Wavelength	1064nm
Ranging	15KM
Accuracy	±2
Irradiation energy	≥80MJ
Irradiation distance	≥10KM
Interface	
Video output	HD-SDI
Control	RS422
Power System	
Working voltage	DC: 28V
Power consumption	≤350W
Environment Parameters	
Operating	-40°C~ + 50°C
Storage temperature	-55°C~ + 70°C
Humidity	95±3%
Packing	
Standard	Pod, Lifting device, GPS antenna (without feeder), Shock absorber, Cable (with electromagnetic shielding)